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 NEWS  1          Web Page for STN Seminar Schedule - N. America
 NEWS  2  JAN 02  STN pricing information for 2008 now available
 NEWS  3  JAN 16  CAS patent coverage enhanced to include exemplified
                  prophetic substances
 NEWS  4  JAN 28  USPATFULL, USPAT2, and USPATOLD enhanced with new
                  custom IPC display formats
 NEWS  5  JAN 28  MARPAT searching enhanced
 NEWS  6  JAN 28  USGENE now provides USPTO sequence data within 3 days
                  of publication
 NEWS  7  JAN 28  TOXCENTER enhanced with reloaded MEDLINE segment
 NEWS  8  JAN 28  MEDLINE and LMEDLINE reloaded with enhancements
 NEWS  9  FEB 08  STN Express, Version 8.3, now available
 NEWS 10  FEB 20  PCI now available as a replacement to DPCI
 NEWS 11  FEB 25  IFIREF reloaded with enhancements
 NEWS 12  FEB 25  IMSPRODUCT reloaded with enhancements
 NEWS 13  FEB 29  WPINDEX/WPIDS/WPIX enhanced with ECLA and current
                  U.S. National Patent Classification
 NEWS 14  MAR 31  IFICDB, IFIPAT, and IFIUDB enhanced with new custom
                  IPC display formats
 NEWS 15  MAR 31  CAS REGISTRY enhanced with additional experimental
                  spectra
 NEWS 16  MAR 31  CA/CAplus and CASREACT patent number format for U.S.
                  applications updated
 NEWS 17  MAR 31  LPCI now available as a replacement to LDPCI
 NEWS 18  MAR 31  EMBASE, EMBAL, and LEMBASE reloaded with enhancements
 NEWS 19  APR 04  STN AnaVist, Version 1, to be discontinued

 NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

 NEWS HOURS     STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN     Welcome Banner and News Items
 NEWS IPC8      For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 13:30:07 ON 07 APR 2008

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

FILE 'REGISTRY' ENTERED AT 13:31:02 ON 07 APR 2008
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STRUCTURE FILE UPDATES: 6 APR 2008 HIGHEST RN 1012582-98-7
DICTIONARY FILE UPDATES: 6 APR 2008 HIGHEST RN 1012582-98-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
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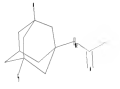
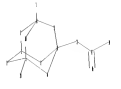
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10716012IIIa.str





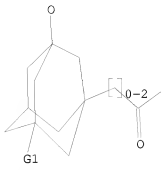
chain nodes :
11 12 13 14 15 18
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
4-12 5-18 8-11 12-13 13-14 13-15
ring bonds :
1-2 1-5 2-3 2-7 3-4 4-6 4-9 5-6 5-10 7-8 8-9 8-10
exact/norm bonds :
1-2 1-5 2-3 2-7 3-4 4-6 4-9 5-6 5-10 5-18 7-8 8-9 8-10 8-11 13-15
exact bonds :
4-12 12-13 13-14

G1:H,OH

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 18:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,OH

Structure attributes must be viewed using STN Express query preparation.

```
=> s l1
SAMPLE SEARCH INITIATED 13:32:07 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      473 TO ITERATE

100.0% PROCESSED      473 ITERATIONS                                3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         8156 TO    10764
PROJECTED ANSWERS:               3 TO      163

L2            3 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 13:32:11 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     9554 TO ITERATE

100.0% PROCESSED     9554 ITERATIONS                               39 ANSWERS
SEARCH TIME: 00.00.01

L3           39 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                 178.82     179.24

FILE 'CAPLUS' ENTERED AT 13:32:14 ON 07 APR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)
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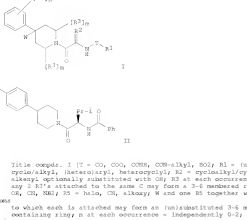
FILE COVERS 1907 - 7 Apr 2008 VOL 148 ISS 15
FILE LAST UPDATED: 6 Apr 2008 (20080406/ED)

=> s l3
L4 49 L3

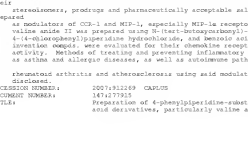
=> d ed abs ibib hitstr tot

L4 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 17 Aug 2007
GI



AB Title compds. I [? = CO, COO, CONH, CONH-alkyl, SO2; R1 = (un)substituted cycloalkyl, (hetero)aryl, heterocyclyl; R2 = cycloalkyl/cycloalkyl, alkenyl optionally substituted with OH; R3 at each occurrence = alkyl; or any 2 R3's attached to the same C may form a 3-8 membered ring; W = N, P, CH, CH, NMe; X5 = helo, CN, alkoxy; W and one R5 together with the C atoms to which each is attached may form an (un)substituted 3-6 membered O containing ring; m at each occurrence = independently 0-2; n = 1-3; and their stereoisomers, prodrugs and pharmaceutically acceptable salts] were prepared as modulators of CCR-1 and MIP-1, especially MIP-1a receptor modulators. Thus, valine amide II was prepared using N-(tert-butoxycarbonyl)-D-valine, 4-(4-chlorophenyl)piperidine hydrochloride, and benzoic acid. All the invention compds. were evaluated for their chemokine receptor modulatory activity. Methods of treating and preventing inflammatory diseases such as asthma and allergic diseases, as well as autoimmune pathologies such as rheumatoid arthritis and atherosclerosis using said modulators are disclosed.

ACCESSION NUMBER: 2007:912269 CAPLUS
DOCUMENT NUMBER: 147:177915
TITLE: Preparation of 4-phenylpiperidine-substituted amino acid derivatives, particularly valine amides, as



L4 ANSWER 1 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

modulators of chemokine receptor activity and their use in the treatment of inflammatory and autoimmune diseases

INVENTOR(S): Carter, Percy H.; Cavallaro, Cullen L.; Dwucia, John V.; Gardner, Daniel S.; Hynes, John; Liu, Rui-Qin; Santella, Joseph B.; Sodhi, Rhampal S.

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 515pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007091461	A2	20070816	WO 2007-US61012	20070125
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
US 20070298956	A1	20070906	US 2007-625874	20070123
PRIORITY APPLN. INFO.:			US 2006-760801P	P 20060127
			US 2007-625874	A 20070123

OTHER SOURCE(S): MARPAT 147:177915
IT 946588-10-99
RLs PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of piperidine-substituted amino acid derivs., particularly valine amides, as chemokine receptor modulators)
RN 946588-10-9 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetamide, N-[(1S)-1-[[4S)-4-(4-chlorophenyl)-4-hydroxy-3,3-dimethyl-1-piperidinyl]carbonyl]-2-methylpropyl]-3-hydroxy-a-oxo- (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 2 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 28 Jun 2007
AB The non-proteinogenic amino acid (4S)-a-amino-3-hydroxy-1-adamantaneacetic acid [i.e., (S)-(3-hydroxy-1-adamantyl)glycine], is a key intermediate required for the synthesis of Saxagliptin (BMS-477118), a dipeptidyl peptidase IV inhibitor under development for treatment of type 2 diabetes mellitus. A keto acid, 3-hydroxy-a-oxo-1-adamantaneacetic acid (I), was converted to (S)-(3-hydroxyadamantyl)glycine by reductive amination using a phenylalanine dehydrogenase from Thermoactinomyces intermedius expressed in a modified form in Pichia pastoris or Escherichia coli. NAD (NAD) produced during the reaction was recycled to NADH (reduced form of NAD) using formate dehydrogenase. Pichia pastoris produces a endogenous formate dehydrogenase when grown on methanol and the corresponding gene was cloned and expressed in E. coli. The modified phenylalanine dehydrogenase contains two amino acid changes at the C-terminus and a 10-amino acid extension of the C-terminus. The modified enzyme is more effective with keto acid I than the wild-type enzyme, but less effective with the natural substrate, Ph pyruvate. Production of multi-kilogram batches was originally carried out with exts. of Pichia pastoris expressing the modified phenylalanine dehydrogenase from Thermoactinomyces intermedius and endogenous formate dehydrogenase, and further scaled up using a preparation of the two enzymes expressed in E. coli.
ACCESSION NUMBER: 2007:709078 CAPLUS
DOCUMENT NUMBER: 147:396225
TITLE: Preparation of an amino acid intermediate for the dipeptidyl peptidase IV inhibitor, Saxagliptin, using a modified phenylalanine dehydrogenase
AUTHOR(S): Hanson, Ronald L.; Goldberg, Steven L.; Brzozowski, David B.; Tully, Thomas P.; Carsullno, Dana; Parker, William L.; Lyngberg, Clay R.; Vu, Trud C.; Wang, Michael F.; Patel, Ramesh N.
CORPORATE SOURCE: Process Research and Development, Bristol-Myers Squibb, New Brunswick, NJ, 08903, USA
SOURCE: Advanced Synthesis & Catalysis (2007), 349(8-9), 1263-1275
CODEN: ASCAFY; ISSN: 1615-4150
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 709031-28-7, 3-Hydroxy-a-oxo-1-adamantaneacetic acid
RLs: RCT (Reactant); RACT (Reactant or reagent)
(preparation of a-amino(hydroxy)adamantaneacetic acid (intermediate for Saxagliptin) via reductive amination of hydroxy-a-(oxo)adamantaneacetic acid using modified phenylalanine dehydrogenase)
RN 709031-28-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-a-oxo- (CA INDEX NAME)

L4 ANSWER 2 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
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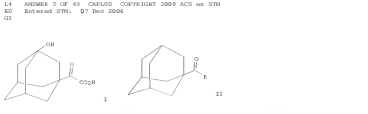
L4 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 07 Dec 2006
GI



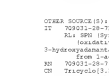
AB 3-Hydroxyadamantaneglyoxylic acid (I) is prepared by the oxidation of 1-acyladamantanes (II; R = C1-5 hydrocarbyl, CHZOR, CHO, COOR; e.g., 1-acetyladamantane) with an oxidant (e.g., potassium permanganate) under oxidizing conditions.

ACCESSION NUMBER: 2006:1280989 CAPLUS
DOCUMENT NUMBER: 146:27567
TITLE: Oxidative process for the preparation of 3-hydroxyadamantaneglyoxylic acid from 1-acyladamantanes
INVENTOR(S): Berner, Mathias; Partanen, Reijo; Salakka, Auli; Somersalo, Pekka
PATENT ASSIGNEE(S): Kemfine Oy, Finland
SOURCE: PCT Int. Appl., 15pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006128952	A1	20061207	WO 2006-FI167	20060529
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
FI 20050577	A	20061201	FI 2005-577	20050531
EP 1885680	A1	20080213	EP 2006-747535	20060529
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				

L4 ANSWER 3 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
IN 2007000472 A 20080328 IN 2007-CN5472 20071129
PRIORITY APPLN. INFO.: FI 2005-577 A 20050531
WO 2006-FI167 W 20060529

OTHER SOURCE(S): CASREACT 146:27567; MARPAT 146:27567
IT 709211-28-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(oxidative process for the preparation of 3-hydroxyadamantaneglyoxylic acid from 1-acyladamantanes)
RN 709211-28-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-a-oxo- (CA INDEX NAME)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 4 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 30 Nov 2006
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB 3-Hydroxyadamantaneglyoxylic acid (I) is prepared by the oxidation of 1-acyladamantanes (II; R = C1-5 hydrocarbyl, CHZOR, CHO, COZRz e.g., 1-acetyladamantane) with an oxidant (e.g., potassium permanganate) under oxidizing conditions.

ACCESSION NUMBER: 2006:1251710 CAPLUS
DOCUMENT NUMBER: 146:27566
TITLE: Oxidative process for the preparation of 3-hydroxyadamantaneglyoxylic acid from 1-acyladamantanes
INVENTOR(S): Berner, Mathias; Partanen, Reijo; Salakka, Auli; Somersalo, Pekka
PATENT ASSIGNEE(S): Kemfine Oy, Finland
SOURCE: U.S. Pat. Appl. Publ., 6pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060270870	A1	20061130	US 2005-139624	20050531
US 7208432	B2	20070417		
PRIORITY APPLN. INFO.:			US 2005-139624	20050531

OTHER SOURCE(S): CASREACT 146:27566; MARPAT 146:27566
IT 709211-28-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(oxidative process for the preparation of 3-hydroxyadamantaneglyoxylic acid from 1-acyladamantanes)
RN 709211-28-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-a-oxo- (CA INDEX NAME)

L4 ANSWER 5 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 29 Sep 2006
AB Conversion of an α,ε-dichloroester to the corresponding ω-keto acid was unexpectedly complicated by a novel 1,4-homofragmentation. Investigation of the kinetics of this reaction revealed a mechanism involving an ω-lactone intermediate, which can lead to both the desired ω-keto acid and the 1,4-homofragmentation, with the product distribution being dependent upon reaction conditions. This information allowed development of a process that affords the α-keto acid exclusively and should be generally applicable to the preparation of ω-keto acids from α,ε-dichlorooesters or acids.
ACCESSION NUMBER: 2004:1021249 CAPLUS
DOCUMENT NUMBER: 145:419295
TITLE: Novel 1,4-homofragmentation via an ω-lactone
AUTHOR(S): Godfrey, Follie D., Jr.; Fox, Rita T.; Buono, Frederic
CORPORATE SOURCE: G. Goujounoa, Jack S.; Malley, Mary F. Department of Process Research and Development and Department of Solid State Chemistry, Pharmaceutical Research Institute, Princeton, NJ, 08543-4000, USA
SOURCE: Journal of Organic Chemistry (2004), 71(27),
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:419295
IT 709031-28-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
11,4-homofragmentation via ω-lactone)
RN 709031-28-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-ω-oxo- (CA INDEX NAME)

REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 24 Mar 2006
AB The title process comprises subjecting 1-acetyl-3-hydroxyadamantane to a liquid-phase oxidation with a permanganate salt (e.g., sodium permanganate) to
produce 2-(3-hydroxy-1-adamantyl)-2-oxoacetic acid, or a salt, with esterification (e.g., hydrochloric acid) to form the free acid.
ACCESSION NUMBER: 2006:219089 CAPLUS
DOCUMENT NUMBER: 144:171720
TITLE: Oxidative process for the preparation of 2-(3-hydroxy-1-adamantyl)-2-oxoacetic acid or its salts from 1-acetyl-3-hydroxyadamantane
INVENTOR(S): Williams, Kirk
PATENT ASSIGNEE(S): Albemarle Corporation, USA
SOURCE: U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060063950	A1	20060323	US 2005-229655	20050916
US 7105523	B2	20060912		
WO 2006034175	A1	20060330	WO 2005-US37446	20050916

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GH, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

EP 1799736	A1	20070530	EP 2005-797765	20050916
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101027952	A	20070822	CN 2005-80031990	20050916
IN 2007DN01812	A	20070817	IN 2007-DN1812	20070308

PRIORITY APPLN. INFO.: US 2004-610893P P 20040917
US 2005-229655 A 20050916
WO 2005-US37446 W 20050916

OTHER SOURCE(S): CASREACT 144:171720
IT 39917-38-9, 1-Acetyl-3-hydroxyadamantane
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidative process for the preparation of 2-(3-hydroxy-1-adamantyl)-2-oxoacetic acid or its salts from 1-acetyl-3-hydroxyadamantane)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 7 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 17 Mar 2006
GI

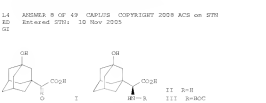
AB The title compound (I) was prepared in 5 steps from 3-chloro-1-adamantanecarboxylic acid, and the steps were optimized.
ACCESSION NUMBER: 2006:236996 CAPLUS
DOCUMENT NUMBER: 145:185462
TITLE: Hydroxyremantadine - a new adamantane-derivative antiherpetic drug: reaction sequence for its manufacture
AUTHOR(S): Ovchinnikov, K. A.; Pozdnyakov, V. V.; Noiseev, I. K.
CORPORATE SOURCE: Kafedra Org. Khim., Samar. Gos. Tekh. Univ., Samara, Russia
SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (2006), 48(10), 71-73
CODEN: IVUKBJ; ISSN: 0579-2991
PUBLISHER: Ivanovskii Gosudarstvennyi Khimiko-Tekhnologicheskii Universitet
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 145:185462
IT 39917-39-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(optimization of hydroxyremantadine preparation)
RN 39917-39-0 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 6 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

IT 709031-28-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(oxidative process for the preparation of 2-(3-hydroxy-1-adamantyl)-2-oxoacetic acid or its salts from 1-acetyl-3-hydroxyadamantane)
RN 709031-28-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-ω-oxo- (CA INDEX NAME)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 10 Nov 2005
GI



AB A process for production of cyclopropyl-fused pyrrolidine-based inhibitors of dipeptidyl peptidase IV is provided which employs a BOC-protected amine of the structure (III) prepared by subjecting an acid of the structure (I) to reduce amination by treating the acid with ammonium formate, NAD, ditheiothreitol and partially purified phenylalanine dehydrogenase/formate dehydrogenase enzyme concentrate (PDH/FDH) and without isolating treating the resulting amine of the structure (II) with di-tert-Bu dicarbonate to form the BOC-protected amine.
ACCESSION NUMBER: 2005:1192917 CAPLUS
DOCUMENT NUMBER: 143:458679
TITLE: Chemoenzymic preparation of dipeptidyl IV inhibitors
INVENTOR(S): Polniaszek, Michael; Cadin, Matthew M.; Shumsky, Paul M.; Chen, Jason G.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 73 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005104611	A2	20051110	WO 2005-US12615	20050413
WO 2005104611	A3	20060126		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

L4 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 8 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

		MZ, NA, SN, TD, TG		
US 20050260712	A1	20051124	US 2005-104615	20050412
AU 2005238442	A1	20051110	AU 2005-238442	20050413
CA 2567903	A1	20051110	CA 2005-2567903	20050413
EP 1737979	A2	20070103	EP 2005-735235	20050413

R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, LV, MK, YU

CN 1965815	A	20070523	CN 2005-80019512	20050413
BR 2005009990	A	20071030	BR 2005-9990	20050413
JP 2007533277	T	20071115	JP 2007-506513	20050413
MX 2006PA11705	A	20061211	MX 2006-PA11705	20061010
IN 2006DN02914	A	20070713	IN 2006-DN2914	20061011
NO 2006005191	A	20061113	NO 2006-5191	20061117
KR 2007006907	A	20070111	KR 2006-727783	20061113
PRIORITY APPLN. INFO.:			US 2004-561982P	P 20040414
			WO 2005-US12615	W 20050413

OTHER SOURCE(S): CASREACT 143:458679
IT 709031-28-7P
RL: PCP (Biochemical process); CPS (Chemical process); PEP (Physical, engineering or chemical process); POR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(chemoenzymic preparation of dipeptidyl IV inhibitors)
RN 709031-28-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-a-oxo- (CA INDEX NAME)

IT 709031-33-4P
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); POR (Purification or recovery); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(chemoenzymic preparation of dipeptidyl IV inhibitors)
RN 709031-33-4 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-a-oxo-, methyl ester (CA INDEX NAME)

L4 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 20 Oct 2005
GI

AB Title compds. represented by the formula I [wherein R1 = hydroxy, halo or alkyl substituted adamantane-1-yl; R2 = H, alkoxycarbonyl, alkyl; R3 = H, alkyl, alkenyl or alkynyl; ring A = (un)substituted (hetero)aryl; and pharmaceutically acceptable salts thereof] were prepared as 11β-HSD1 (11β-hydroxysteroid dehydrogenase type 1) inhibitors. For example, reaction of 1-adamantyl bromomethyl ketone with thiourea to give 4-(1-adamantyl)-2-aminothiazole•HBr, followed by substitution with 5-chloro-2-methyl-benzo[b]thiophene-2-sulfonyl chloride provided II. II showed inhibition of 11β-HSD1 with an IC50 value of 16 nM.
ACCESSION NUMBER: 2005:1126475 CAPLUS
DOCUMENT NUMBER: 143:405898
TITLE: Preparation of adamantyl thiazole derivatives as 11β-HSD1 inhibitors
INVENTOR(S): Fukushima, Hiroshi; Takahashi, Masato; Susuga, Izuyoshi; Kawaguchi, Takanori
PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 99 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005097764	A1	20051020	WO 2005-JP7106	20050406

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2007283945	A	20071101	JP 2004-113205	20040407
PRIORITY APPLN. INFO.:			JP 2004-113205	A 20040407

OTHER SOURCE(S): MARPAT 143:405898
IT 39917-38-9P 62825-02-5P

L4 ANSWER 9 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
RL: ACT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preps. of N-(1-adamantyl)thiazolyl sulfonamide deriva. as 11β-HSD1 inhibitors)
RN 29917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

RN 42825-05-5 CAPLUS
CN Ethanone, 1-(3-methoxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 27 Aug 2004
GI

AB The title composition contains an alkali solubilizable resin, an actinic ray-
or radiation-sensitive acid generator, and fluoro and/or silicone surfactant, wherein the resin has repeating unit I(R = H, alkyl). The composition provides consistent pattern without depending on covering ratio of
a photomask.

ACCESSION NUMBER:	2004:701022 CAPLUS
DOCUMENT NUMBER:	141:273189
TITLE:	Positive far UV-sensitive photoresist compositions
INVENTOR(S):	Sato, Kenichiro; Kodama, Kunihiko
PATENT ASSIGNEE(S):	Fuji Photo Film Co., Ltd., Japan
SOURCE:	Jpn. Kokai Tokkyo Koho, 64 pp.
	CODEN: JKXXAF
DOCUMENT TYPE:	Patent
LANGUAGE:	Japanese
FAMILY ACC. NUM. COUNT:	1
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
JP 2004240387	A	20040826	JP 2003-75896		20030319
KR 2004085881	A	20040617	KR 2003-89268		20031210
PRIORITY APPLN. INFO.:			JP 2002-358305	A	20021210
			JP 2003-75896	A	20030319

OTHER SOURCE(S): MARPAT 141:273189
IT 745831-56-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(pos. photoresist compns.)
RN 745831-56-9 CAPLUS
CN D-Glucitol, 1,4:3,6-dianhydro-, mono(2-methyl-2-propenoate), polymer with 3-(2,2-dimethyl-1-oxopropyl)tricyclo[3.3.1.13,7]dec-1-yl 2-methyl-2-propenoate and tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate

L4 ANSWER 10 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
(RCT) (CA INDEX NAME)

CM 1

CRN 745831-49-6
CMF C19 H28 O3

CM 2

CRN 195000-66-9
CMF C8 H10 O4

CM 3

CRN 745831-43-0
CMF C19 H14 O5
CCI IDS

CM 4

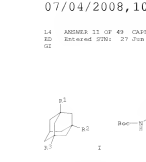
CRN 652-67-5
CMF C6 H10 O4

Absolute stereochemistry. Rotation (+).

L4 ANSWER 10 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
CM 5

CRN 79-41-4
CMF C4 H6 O2

L4 ANSWER 11 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 27 Jun 2004
GI



AB The invention provides methods and compds. for the production of cyclopropyl-fused pyrrolidine-based inhibitors of dipeptidyl peptidase IV.

Also described are methods for the asym. reductive amination of [5-hydroxyadamantan-2-yl]acoacetic acid. Adamantane derivs. I [R1 is H or

OR; R2 is C(O)CR4, C(O)NR5R6, C(K)NCOR4 or C(NHTR8)COR4, where K is halo,

R is 1-2, R4 is alkoxy, NH2 or OH, and R5-R8 are H or carbalkoxy; R3 is H,

OR or NR9C(O)R10, where R9 is carboxy-substituted alkyl or aryl and R10 is

3-cyano-2-azabicyclo[3.1.0]hex-2-yl] or their pharmaceutically-acceptable salts are claimed. Thus, adamantyl-substituted glycinamide derivative II [Boc

= tert-butoxycarbonyl] was prepared via amidation of Boc-protected (R)-4-amino-3-hydroxy-1-adamantaneacetic acid.

ACCESSION NUMBER: 2004:515478 CAPLUS
DOCUMENT NUMBER: 141:54618
TITLE: Preparation of cyclopropyl-fused pyrrolidine-based inhibitors of dipeptidyl peptidase IV
INVENTOR(S): Vu, Trac Chi; Brzozowski, David B.; Fox, Rita; Godfrey, Joelle Dusine, Jr.; Hanson, Ronald L.; Xolotochin, Sergei V.; Marzullo, John A., Jr.; Patel, Ramesh N.; Wang, Jianji; Wang, Kwok; Yu, Jurong; Zhu, Jason; Magnin, David R.; Augeri, David J.; Hanson, Lawrence G.
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA
SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004052850	A2	20040624	WO 2003-US38558	20031204
WO 2004052850	A3	20060302		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20050090539	A1	20050428	US 2003-716012	20031118
CA 2508619	A1	20040624	CA 2003-2508619	20031204
AU 2003297647	A1	20040630	AU 2003-297647	20031204
EP 1581487	A2	20051005	EP 2003-812799	20031204
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
EP 2005013739	A	20051129	EP 2005-13739	20031204
CN 1791401	A	20060621	CN 2003-801096.71	20031204
JP 2006516121	T	20060622	JP 2004-558282	20031204
MX 2005PA05979	A	20050818	MX 2005-PA5979	20050603
IN 2005DN00420	A	20050215	IN 2005-DN420	20050215
PRIORITY APPLN. INFO.:			US 2002-431814P	P 20021209
			WO 2003-US38558	W 20031204
			IN 2005-DN2279	A3 20050530

OTHER SOURCE(S): CASREACT 141:54618; MARPAT 141:54618
IT 709031-28-7P 709031-33-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of cyclopropyl-fused pyrrolidine-based inhibitors of dipeptidyl peptidase IV)
RN 709031-28-7 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-α-oxo- (CA INDEX NAME)

RN 709031-33-4 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-acetic acid, 3-hydroxy-α-oxo-, methyl

L4 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
ester (CA INDEX NAME)

L4 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004103642	A	20040402	JP 2002-260191	20020905
JP 4031307	B2	20080109		
KR 2004030278	A	20040409	KR 2003-59746	20030828
PRIORITY APPLN. INFO.:			JP 2002-260191	A 20020905

IT 676260-19-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(excimer laser-sensitive photoresists with high sensitivity, resolution, and etching resistance)
RN 676260-19-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 3,5-dihydroxytricyclo[3.3.1.13,7]dec-1-yl ester, polymer with
2-(2,6-dimethyl-3-oxospiro[tricyclo[3.3.1.13,7]dec-1-yl 2-propenoate, tetrahydro-2-oxo-3-furanyl 2-methyl-2-propenoate and 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 676260-18-7
CMF C18 H26 O3

L4 ANSWER 12 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

CM 2

CRN 195090-66-9
CMF C8 H10 O4

CM 3

CRN 12894E-20-7
CMF C13 H20 O2

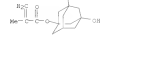
CM 4

CRN 115522-15-1
CMF C14 H20 O4

L4 ANSWER 13 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 09 Oct 2002
AB 3-Chloro-1-acetyladamantane was subjected to substitution reactions with CsNO2, PbNO3, AgF, and NaOH to give the corresponding 3-substituted derivs. 3-Hydroxy-1-acetyladamantane was treated with HCOOH, CHCl3-CCl2, and CH2-CCl2 to give the 3-carboxylic, 3-chloroacetic, and 3-acetic acids.
ACCESSION NUMBER: 2002:791319 CAPLUS
DOCUMENT NUMBER: 140:253274
TITLE: Synthesis of 3-R-1-acetyladamantanes by substitution in 3-chloro- and 1-hydroxy-1-acetyladamantanes
AUTHOR(S): Fokhtyakov, V. V.; Mozzhev, I. K.
CORPORATE SOURCE: Samara State Technical University, Samara, 443100, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2002), 38(5), 739-741
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:253274
IT 39917-38-9P, 1-Acetyl-3-hydroxyadamantane
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of 3-R-1-acetyladamantanes by substitution in 3-chloro- and 3-hydroxy-1-acetyladamantanes)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 11 Jun 2003
GI



AB Chemical synthesis of 3-substituted analogs of remantadine is described. Derivs. I and II when compared with remantadine had not only potent activity against ethalon herpes simplex type 1 virus strain but also were active against herpes virus resistant to aciclovir. Compound II demonstrated virucidal effect. Combination of II + aciclovir had additive effect against ethalon herpes simplex type 1 virus strain. Investigated 3-substituted analogs demonstrated low activity in the model system of influenza virus A. No antiviral activity was demonstrated in the model system of Sindbis virus (though compds. were evaluated in subtoxic concns.).
ACCESSION NUMBER: 2003:444331 CAPLUS
DOCUMENT NUMBER: 139:229741
TITLE: 3-Substituted analogs of remantadine: synthesis and antiherpetic activity in culture of Vero cells
AUTHOR(S): Moiseev, I. K.; Andronova, V. L.; Pozdnyakov, V. V.; Makarova, N. V.; Galegov, G. A.
CORPORATE SOURCE: D. I. Ivanovsky Res. Inst. of Virology, Russian Academy of Med. Sciences, Moscow, Russia
SOURCE: Antibiotiki i Khimioterapiya (2002), 47(11), 9-12
CODEN: ANKHEM; ISSN: 0235-2990
PUBLISHER: Izdatel'skii Dom "Krasnaya Floshcha6"
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 39917-38-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis and antiherpetic activity of 3-substituted analogs of remantadine)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 2002
GI

AB High-mol. compds. for photoresists, each having at least one skeleton represented by the general formula -HC(R1)2(CRa1), I, II, or III; -HC(Ra1)2(CRa1) I II III; R = alicyclic skeleton; Ra1= electron-attracting group, R, monovalent organic group). The compds. shows small absorption towards 4140 nm light and provide the fine resist pattern of nanometer size and of the high etching resistance.
ACCESSION NUMBER: 2002:283506 CAPLUS
DOCUMENT NUMBER: 136:277479
TITLE: High-molecular compounds for photoresists, monomeric compounds, photosensitive resin compositions, method for forming patterns with the compositions, and process for production of electronic components
INVENTOR(S): Shida, Naomi; Ochirogouchi, Toru; Naito, Takuya
PATENT ASSIGNEE(S): Kabushiki Kaisha Toshiba, Japan
SOURCE: PCT Int. Appl., 321 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002076644	A1	20020530	WO 2001-JP9567	20011031
W: KR, US				
JP 2002201219	A	20020719	JP 2001-295012	20010926
JP 6034538	B2	20080316		
US 2005035781	A1	20050217	US 2003-425848	20030430
US 6974655	B2	20051213		
PRIORITY APPLN. INFO.:			JP 2000-332358	A 20001031

L4 ANSWER 15 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
JP 2001-295012 A 20010926
WO 2001-JP9567 A1 20031031

OTHER SOURCE(S): MARPAT 136:377479
IT 42482-92-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(monomer of high-mol. compds. for photoresists)
RN 42482-92-6 CAPLUS
CN Ethanone, 1-[3-(4-ethenylcyclohexyl)tricyclo[3.3.1.13,7]dec-1-yl]-2,2,2-trifluoro- (CA INDEX NAME)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 16 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 21 Feb 2002
AB Ifflland's reactions of 1-adamantyl Me ketone, (1-adamantyl)acetone, 3-hydroxy-1-adamantyl Me ketone, and N-bromosuccinimide gave bromonitro derivs. which, on reduction with sodium borohydride, afforded 1-(1-adamantyl)-1-nitroethane, 1-(1-adamantyl)-2-nitropropane, and 1-(3-hydroxy-1-adamantyl)-1-nitroethane.
ACCESSION NUMBER: 2002:136602 CAPLUS
DOCUMENT NUMBER: 137:15932
TITLE: Ifflland's reaction with methyl ketone oximes of the adamantane series
AUTHOR(S): Makarova, N. V.; Moiseev, I. K.; Semkova, N. N.
CORPORATE SOURCE: Samara State Technical University, Samara, 443010, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2001), 37(10), 1415-1417
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 137:5932
IT 39917-38-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(Ifflland's reaction with Me ketone oximes of the adamantane series)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 17 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 07 Feb 2002
AB A general procedure was proposed for synthesizing 3-R-1-adamantyl Me ketones from the corresponding adamantanecarbonyl chlorides and di-Me malonate in toluene (benzene) in the presence of sodium hydroxide. Intermediate di-Me [3-R-1-adamantylcarbonyl]malonates can also be isolated. The resulting ketones reacted with hydroxylamine and formamide at the presence of formic acid to give the corresponding oximes and 1-(3-R-1-adamantyl)ethylamines. Di-Me [3-R-1-adamantylcarbonyl]malonates reacted with phenylhydrazine to give adamantyl-substituted 4,5-dihydropyrazol-5-one derivs.
ACCESSION NUMBER: 2002:100312 CAPLUS
DOCUMENT NUMBER: 136:401464
TITLE: Synthesis and reactivity of 3-R-1-adamantyl methyl ketones
AUTHOR(S): Pozdnyakov, V. V.; Makarova, N. V.; Moiseev, I. K.
CORPORATE SOURCE: Samara State Technical University, Samara, 443010, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2001), 37(9), 1228-1231
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:401464
IT 39917-38-99
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reactivity of 3-R-1-adamantyl Me ketones)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 18 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 08 Jan 2002
AB Gas-liquid and thin-layer chromatog. were used to monitor the composition of reaction mixts. during synthesis of the title compds. Retention indexes were determined for 12 oxygenated adamantane derivs.
ACCESSION NUMBER: 2002:14904 CAPLUS
DOCUMENT NUMBER: 136:140420
TITLE: Chromatographic monitoring of 3-hydroxy-1-adamantyl methyl ketone and 2-adamantylidenecyanoacetophenone synthesis
AUTHOR(S): Lobacheva, A. L.; Sinitsyn, M. V.; Polotvin, A. A.
CORPORATE SOURCE: Samar. Gos. Univ., Samara, Russia
SOURCE: Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (2001), 44(5), 109-112
CODEN: IVUKAR; ISSN: 0579-2991
PUBLISHER: Ivanovskii Gosudarstvennyi Khimiko-Tekhnologicheskii Universitet
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 39917-38-99
RL: PNU (Properties); SPN (Synthetic preparation); PREP (Preparation); (chromatog. monitoring of 3-hydroxy-1-adamantyl Me ketone and 2-adamantylidenecyanoacetophenone synthesis)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 19 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 20 Dec 2001
AB The Claisen-Schmidt reaction between 3-hydroxy-1-adamantyl Me ketone and aromatic aldehydes (benzaldehyde and 2-thiophenecarbaldehyde) in 2-propanol catalyzed by 50% aqueous potassium hydroxide affords 1-(3-hydroxy-1-adamantyl)-3-R-2-propen-1-ones. The reaction of 3-hydroxy-1-adamantyl Me ketone with Et formate and sodium in benzene gives rise to sodium enolate of 1-(3-hydroxy-1-adamantyl)-3-hydroxy-2-propen-1-one. The latter compound treated with amine hydrochlorides in 50% aqueous alc. furnishes 1-(3-hydroxy-1-adamantyl)-3-RNH-amino-2-propen-1-ones.
ACCESSION NUMBER: 2001:916934 CAPLUS
DOCUMENT NUMBER: 136:279198
TITLE: Synthesis of unsaturated ketones from 3-hydroxy-1-adamantyl methyl ketone
AUTHOR(S): Makarova, N. V.; Punenov, A. A.; Zentsova, N. N.; Moiseev, I. K.
CORPORATE SOURCE: Samara State Technical University, Samara, 443010, Russia
SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2001), 37(8), 1099-1101
CODEN: RJOCEQ; ISSN: 1070-4280
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:279198
IT 39917-38-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of unsatd. ketones from hydroxyadamantyl Me ketone via Claisen-Schmidt condensation of hydroxyadamantyl ketone and arom aldehydes)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

IT 406695-83-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of unsatd. ketones from hydroxyadamantyl Me ketone via Claisen-Schmidt condensation of hydroxyadamantyl ketone and arom aldehydes)
RN 406695-83-8 CAPLUS
CN 2-Propen-1-one, 3-hydroxy-1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-, monosodium salt (9CI) (CA INDEX NAME)

RN 406695-87-2 CAPLUS
CN 2-Propen-1-one, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-3-(tricyclo[3.3.1.13,7]dec-2-ylamino)-, (2E)- (CA INDEX NAME)

Double bond geometry as shown.

RN 406695-88-3 CAPLUS
CN 2-Propen-1-one, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-3-(phenylamino)-, (2E)- (CA INDEX NAME)

Double bond geometry as shown.

RN 406695-89-4 CAPLUS
CN 2-Propen-1-one, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-3-(1-piperidinyl)-, (2E)- (CA INDEX NAME)

Double bond geometry as shown.

● Na

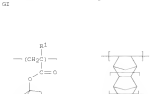
IT 406695-84-9P 406695-85-0P 406695-86-1P
406695-87-2P 406695-88-3P 406695-89-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of unsatd. ketones from hydroxyadamantyl Me ketone via Claisen-Schmidt condensation of hydroxyadamantyl ketone and arom aldehydes)
RN 406695-84-9 CAPLUS
CN 2-Propen-1-one, 3-hydroxy-1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

RN 406695-85-0 CAPLUS
CN 2-Propen-1-one, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-3-(2-thienyl)- (CA INDEX NAME)

RN 406695-86-1 CAPLUS
CN 2-Propen-1-one, 3-amino-1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)-, (2E)- (CA INDEX NAME)

Double bond geometry as shown.

L4 ANSWER 20 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 04 Sep 2001
GI



AB Photoresist compns. contain polymers containing monomer units 1 and/or II [R1-R7 = H, Me; X1-X3 = CH2, CO2; at least one of X1-X3 is CO2; n, p, q = 0-2] and photoacid generators. The compns. show good adhesion to substrates such as Si and can precisely form fine patterns in semiconductor manufacturing
ACCESSION NUMBER: 2001:644598 CAPLUS
DOCUMENT NUMBER: 135:218719
TITLE: Lactone ring-containing polymers and resin compositions for photoresists
INVENTOR(S): Gokochi, Toru; Okino, Takashi; Asakawa, Koji; Shiroda,
Naoko; Funaki, Katsumori; Tsutsumi, Kiyoharu; Horai, Akira
PATENT ASSIGNEE(S): Toshiba Corp., Japan; Daicel Chemical Industries, Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 49 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001240625	A	20010904	JP 2000-49549	20000225

PRIORITY APPLN. INFO.: JP 2000-49549 20000225

IT 39917-38-9
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of lactone ring-containing polymers for photoresists)

L4 ANSWER 20 OF 49 CAPLUS (Continued)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 21 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 10 Aug 2001
GI

AB The invention relates to a polymeric compound for photoresists which comprises monomer units represented by formula I; and a resin composition for photoresists which comprises the polymeric compound and a photo-acid generator. The composition, which contains 3-(hydroxymethyl)-2-bicyclo[2.2.1]heptanecarboxylic acid γ-lactone based repeating unit, has high adhesion to substrates and can precisely form a fine pattern.
ACCESSION NUMBER: 2001:582183 CAPLUS
DOCUMENT NUMBER: 135:160158
TITLE: Polymeric compound for photoresist and resin composition for photoresist
INVENTOR(S): Funaki, Yoshinori; Tsutsumi, Kiyoharu; Takaragi, Akira
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 110 pp.
CODEN: PIXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001057597	A1	20010809	WO 2001-JP915	20010126
W: KR, US				
RW: DE, FR, GB				
JP 2001215703	A	20010810	JP 2000-24527	20000201
EP 1172694	A1	20020116	EP 2001-949041	20010126
R: DE, FR, GB				
TW 538321	B	20030621	TW 2001-90101862	20010131
US 20020169266	A1	20021114	US 2001-937910	20011019
US 6552143	B2	20030422		
US 20040006189	A1	20040108	US 2003-375129	20030228
US 6806335	B2	20041019		

PRIORITY APPLN. INFO.:

JP 2000-24527	A	20000201
WO 2001-JP915	W	20010126
US 2001-937910	A3	20011019

IT 39917-38-9
RL: RCT (Reactant); RACT (Reactant or reagent)

L4 ANSWER 21 OF 49 CAPLUS (Continued)
(polymeric compd. for photoresist and resin compn. for photoresist)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 21 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 15 May 2001
GI

AB The polymer is that having R1 adamantyl-substituted nonomer unit I (R1 = H, Me; R2, R3 = H, OH). The photoresist composition contains the polymer and a photosensitive acid-generating agent. The photoresist composition, showing good etching resistance, is suitable for photolithog. in semiconductor device fabrication.
ACCESSION NUMBER: 2001:347119 CAPLUS
DOCUMENT NUMBER: 134:366475
TITLE: Adamantyl-containing polymer for photoresist and polymer composition for photoresist
INVENTOR(S): Sakeshi, Terry Obine, Takashi; Asakawa, Koji; Shineda,
Naoki; Funaki, Katsunori; Tsutsumi, Kiyoharu Horai, Akira; Inoue, Keiro
PATENT ASSIGNEE(S): Toshiba Corp., Japan; Daicel Chemical Industries, Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001131232	A	20010515	JP 1999-312329	19991102
TW 581939	B	20040401	TW 2000-89122996	20001101
PRIORITY APPLN. INFO.:			JP 1999-312329 A	19991102

L4 ANSWER 22 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
IT 39917-38-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(intermediate for monomer; adamantyl-containing polymer for etching-resistant photoresist for semiconductor device fabrication)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 23 Jun 2000
GI

AB Imide compound I (R1 and R2 are H, halogen alkyl, and etc., or are united to
form a double bond or a ring, X is oxygen or hydroxyl) is a reaction catalyst for a stable radical-forming compound (including oxygen compds. having carbon-hydrogen bonds adjacent to the oxygen aton, carbonyl compds.
and compds. having hydrocarbon groups bearing methyne carbon) with a radical-scavenging compound (including unsatd. compds., compds. having hydrocarbon groups bearing methyne carbon) in the presence of mol. oxygen.
Thus, It acrylate 3 mmol and 2-propanol 3 mL were reacted in the presence of N-hydroxyphthalimide 0.6 mmol and cobalt (II) acetate 0.015 mmol cobalt
(II) acetylacetate 0.045 mmol to give Et 2,4-dihydroxy-4-methylpentanate 35%, a-hydroxy-y,y-dimethyly-butyrolactone 35% at the conversion of Et acrylate 81%
ACCESSION NUMBER: 2000:421046 CAPLUS
DOCUMENT NUMBER: 133:60353
TITLE: preparation of organic compounds with imide catalysts
INVENTOR(S): Ishii, Yasutaka; Iwahama, Takahiro; Nakano, Tatsuya
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 133 pp.
CODEN: PIXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000053935	A1	20000622	WO 1999-JP6891	19991209
W: JP, KR, US				
RW: DE, FR, GB				
EP 1053654	A1	20001129	EP 1999-959710	19991209
EP 1053654	B1	20080220		
R: DE, FR, GB				
US 7184423	B1	20070227	US 2000-622001	20000922
PRIORITY APPLN. INFO.:			JP 1999-353622 A	19981211
			JP 1999-353622 A	19981211
			JP 1999-65651 A	19990311
			JP 1999-136340 A	19990517

L4 ANSWER 23 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
WO 1999-JP6891 W 19991209

OTHER SOURCE(S): MARPAT 133:60353
IT 39917-38-9P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of organic compds. with imide catalysts)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 03 Dec 1999
AB The compns. comprises polymers having units derived from an acid-sensitive compound selected from (meth)acrylic acid esters bearing specific alicyclic
groups, e.g., adamantanyl group. The compns. have high resistance to etchants, become soluble upon irradiation with light, and can form a finer
pattern. Thus, adding a solution of 1.2 mol 1-PrMgI in dry Et2O to a solution
of 1 mol adamantan-1-ylethan-1-one in dry THF at 10°, mixing for 6 h, and esterifying the resulting 3-(1-hydroxy-1,2-dimethylpropyl)adamantane with 1-Pr acrylate in the presence of SnI2 gave 1-(1-acryloyloxy-1,2-dimethylpropyl)adamantane (I). Polymerizing 1 50 with Me
methacrylate 10, Bu acrylate 20 and methacrylic acid 20% using BzOO2 gave a copolymer with weight-average mol. wt. 8300. Aggra. 5.0 g, 100 parts of which was
combined with 15 parts triphenylphosphonium hexafluoroantimonate and PGMe solvent to give a photoresist.
ACCESSION NUMBER: 1999:764004 CAPLUS
DOCUMENT NUMBER: 132:12928
TITLE: Acid-sensitive compounds for use in photoresist resin compositions
INVENTOR(S): Wakaya, Tatsuya
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9961424	A1	19991202	WO 1999-JP2637	19990520
W: KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 2000136265	A	20000516	JP 1999-135623	19990517
JP 2000317446	A	20001202	JP 2003-30804	19990517
EP 1009924	A1	20000517	EP 1999-953334	19990520
R: DE, FR, GB				
EP 1445266	A2	20040811	EP 2004-8994	19990520
EP 1445266	A3	20040915		
EP 1445266	B1	20060503		
R: DE, FR, GB				
TW 476866	B	20020221	TW 1999-88108544	19990525
US 20030180662	A1	20030925	US 2003-386474	20030319
PRIORITY APPLN. INFO.:			JP 1998-143536 A	19980525
			JP 1998-244067 A	19980828
			JP 1999-135623 A3	19990517

L4 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
ED Entered STN: 03 Dec 1999
GI

AB Title compds I [R3 is hydrogen or a hydrocarbon group; R2 is a hydrocarbon
group having, at the binding site to the adjacent carbon atom, a carbon atom bearing at least one hydrogen atom bonded thereto; and R3, R4 and R5 are each hydrogen, optionally protected hydroxyl or the like, with the provisos that when R2 is hydrogen or Me and R2 is Me, at least one of the carbon atoms constituting the adamantane skeleton has protected hydroxyl or the like. In a state bonded thereto and that when one of R2 and R2 is Me
and the other is Et, the adamantane ring has at least one more substituent
in addition to the MOCH3R2 group], useful as monomers, are prepared Thus,
Grignard reaction of 1-acetyladamantane with 1-PrMgBr gave 46% α-isopropyl-α-methyl-1-adamantanemethanol.
ACCESSION NUMBER: 1999:691584 CAPLUS
DOCUMENT NUMBER: 131:299244
TITLE: Preparation of adamantanemethanol derivatives
INVENTOR(S): Nakano, Tatsuya; Shimojitoyo, Hiroshi
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9954273	A1	19991028	WO 1999-JP2110	19990421
W: JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 990632	A1	20000405	EP 1999-917071	19990421
R: DE, FR, GB				
US 6734190	B1	20020205	US 1999-468326	19991221
US 20020016516	A1	20020207		
PRIORITY APPLN. INFO.:			JP 1998-128296 A	19980421
			JP 1998-286632 A	19981007

L4 ANSWER 24 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
JP 1999-72669 A 19990317
WO 1999-JP2110 W 19990421

OTHER SOURCE(S): CASREACT 131:299244; MARPAT 131:299244
IT 39917-38-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of adamantanemethanol derivs.)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

RN 251564-79-1 CAPLUS
CN 1-Propanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 25 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
ED Entered STN: 29 Oct 1999

AB Title compds I [R3 is hydrogen or a hydrocarbon group; R2 is a hydrocarbon
group having, at the binding site to the adjacent carbon atom, a carbon atom bearing at least one hydrogen atom bonded thereto; and R3, R4 and R5 are each hydrogen, optionally protected hydroxyl or the like, with the provisos that when R2 is hydrogen or Me and R2 is Me, at least one of the carbon atoms constituting the adamantane skeleton has protected hydroxyl or the like. In a state bonded thereto and that when one of R2 and R2 is Me
and the other is Et, the adamantane ring has at least one more substituent
in addition to the MOCH3R2 group], useful as monomers, are prepared Thus,
Grignard reaction of 1-acetyladamantane with 1-PrMgBr gave 46% α-isopropyl-α-methyl-1-adamantanemethanol.
ACCESSION NUMBER: 1999:691584 CAPLUS
DOCUMENT NUMBER: 131:299244
TITLE: Preparation of adamantanemethanol derivatives
INVENTOR(S): Nakano, Tatsuya; Shimojitoyo, Hiroshi
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 72 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9954273	A1	19991028	WO 1999-JP2110	19990421
W: JP, KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 990632	A1	20000405	EP 1999-917071	19990421
R: DE, FR, GB				
US 6734190	B1	20020205	US 1999-468326	19991221
US 20020016516	A1	20020207		
PRIORITY APPLN. INFO.:			JP 1998-128296 A	19980421
			JP 1998-286632 A	19981007

L4 ANSWER 25 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
JP 1999-72669 A 19990317
WO 1999-JP2110 W 19990421

OTHER SOURCE(S): CASREACT 131:299244; MARPAT 131:299244
IT 39917-38-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of adamantanemethanol derivs.)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

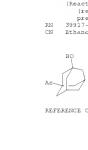
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 08 Sep 1999
AB By reacting 1-adamantanecarbonyl chloride with di-Me malonate in the presence of solid NaOH, di-Me (1-adamantanecarbonyl)malonate, an intermediate product in the synthesis of (1-adamantyl) Me ketone, was prepared. The use of NaOH instead of Mg in the synthesis of ketones from acyl chlorides and malonic esters is restricted by the hydrolytic instability of acyl chlorides. At the same time, with NaOH instead of Mg the synthesis is much facilitated and the yield of the target (1-adamantyl) Me ketone is improved. Resistance of an acid to hydrolysis can apparently be measured by its diacetation constant. Comparison of the dissociation consts. of 3-chloro- and 3-bromo-1-adamantanecarboxylic acids with that of 1-adamantanecarboxylic acid (kd + 10^{7} 1.55 (1-AdCOOH), 6.4€ (3-Br-1-AdCOOH), 7.13 (3-Cl-1-AdCOOH)] allows the approach to be extended to 3-halo-1-adamantanecarboxylic acids. Aiming at developing methods for synthesis of Me 3-X-1-adamantyl ketone, haloadamantylacyl bromide or chloride was reacted with di-Me malonate in the presence of NaOH and isolated di-Me (3-halo-1-adamantanecarbonyl)malonates. The composition and structure of the products were proved by IR and IR spectroscopy and elemental anal.
ACCESSION NUMBER: 1999:564300 CAPLUS
DOCUMENT NUMBER: 131:299239
TITLE: Reaction of 3-halo-1-adamantanecarbonyl chlorides with dimethyl malonate
AUTHOR(S): Maksimova, N. V.; Moleseev, I. K.; Zentsova, M. N.
CORPORATE SOURCE: Samara State Technical University, Samara, Russia
SOURCE: Russian Journal of General Chemistry (Translation of Zhurnal Obshchei Khimii) (1999), 69(4), 675-676
CODEN: RJGCEI; ISSN: 1070-3632
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:299239
IT 39917-38-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(reaction of haloadamantanecarbonyl chlorides with di-Me malonate in preparation of adamantyl Me ketone)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

L4 ANSWER 26 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L4 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 24 Aug 1999
GI



AB Acylating agents comprising: (A) a 1,2-diacbonyl compound or its hydroxy-reduction derivative (I; Ra1, Rb1 = C1-4 alkyl, cycloalkyl, aryl; or Ra1 and Rb1 are bonded to each other to form together with the adjacent two carbon atoms, a ring; E1, E2 = O, OH); (B) an enzyme; and (C) at least one compound selected from among (c1) metal compds. and (c2) imide compds. such as N-hydroxyphthalimide (II; R1, R2 = H, halo, alkyl, aryl, cycloalkyl, OH, alkoxy, CO2R, alkoxycarbonyl, aryl; or R1 and R2 are bonded to each other to form a double bond or an aromatic or nonaron. ring optionally bonded to one or two imide groups; X = O, OH). As the 1,2-diacbonyl compound or its hydroxy-reduction derivative (A), use may be made of biacetyl, 2,3-butanediol, etc. As the metal compds. (c1), use may be made of a cobalt compound such as cobalt acetate. An acyl group can be efficiently introduced into a methine carbon atom by treating a compound carrying a methine carbon atom such as an adamantane derivative [III; R = acyl, R3, R4, R3 = H, halo, alkyl, (un)protected OH, CHOOH, NH2, or CO2R, NO2, aryl; the carbon atoms constituting the adamantane skeleton other than the bridge head carbon optionally possess substituents] by the above acylating agent. Thus, a mixture of adamantane 3, biacetyl 18, cobalt acetate 0.015 mmol, 3 mL AcOH was stirred under oxygen atmospheric at 60° for 4 h to give 1-acetyladamantane 55, 1,3-diacetyladamantane 23, 1-acetyl-3-adamantanol 4, 1-adamantanol 2, and 2-adamantanone 3% with 85% conversion of adamantane.

L4 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
ACCESSION NUMBER: 1999:529218 CAPLUS
DOCUMENT NUMBER: 131:157613
TITLE: Acylating agents, acylation of nonactivated methine carbon with the use of the same and adamantane derivatives
INVENTOR(S): Ishii, Yasutaka; Nakano, Tatsuya; Hirai, Haruhisa
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9941219	A1	19990819	WO 1999-JP567	19990210
W: US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 11335304	A	19991207	JP 1998-353620	19981211
EP 990234	A1	20000405	EP 1999-902870	19990210
R: DE, FR, GB				
US 6429314	B1	20020806	US 1999-402898	19991013
PRIORITY APPLN. INFO.:			JP 1998-48880	A 19980213
			JP 1998-100458	A 19980327
			JP 1998-353620	A 19981211
			WO 1999-JP567	W 19990210

OTHER SOURCE(S): CASREACT 131:157613; MARPAT 131:157613
IT 39917-38-9P 216582-03-5P, 1-Acetyl-3,5-adamantanediol 237749-98-3P 237749-99-4P 237750-01-9P 237750-23-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(acylating agents containing diacbonyl compound, imide, and metal compound for acylation of nonactivated methine carbon such as adamantane)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

RN 216582-03-5 CAPLUS
CN Ethanone, 1-(3,5-dihydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 237749-98-3 CAPLUS
CN Tricyclo[3.3.1.13,7]decanone, 5-acetyl-1-hydroxy- (9CI) (CA INDEX NAME)

RN 237749-99-4 CAPLUS
CN Tricyclo[3.3.1.13,7]decanone, 1-acetyl-5-hydroxy- (9CI) (CA INDEX NAME)

RN 237750-01-5 CAPLUS
CN Tricyclo[3.3.1.13,7]decane-1-carboxylic acid, 3-acetyl-5-hydroxy- (CA INDEX NAME)

RN 237750-23-3 CAPLUS
CN Ethanone, 1,1'-[5-hydroxytricyclo[3.3.1.13,7]decane-1,3-diyl]bis- (9CI) (CA INDEX NAME)

L4 ANSWER 28 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 23 Jul 1999
AB Exposure of a mixture of adamantane and biacetyl under O2 in the presence of
Co(OAc)2 (0.1 mol%) in AcOH 1d to 1-acetyladamantane (47%) and 1,3-diacetyladamantane (20%) as major products along with small amts. of 1-adamantanol (4%) and 2-adamantanone (3%).
ACCESSION NUMBER: 1999:447140 CAPLUS
DOCUMENT NUMBER: 131:271649
TITLE: Catalytic radical acetylation of adamantanes with biacetyl by a cobalt salt under atmospheric dioxygen
AUTHOR(S): Kishi, Arata; Kato, Susumu; Sakaguchi, Satoshi; Ishii, Yasutaka
CORPORATE SOURCE: Research Center, Faculty of Engineering and High Technology, Department of Applied Chemistry, Kansai University, Suita, Osaka, Japan
SOURCE: Chemical Communications (Cambridge) (1999), (15), 1421-1422
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 39917-38-9P, 1-Acetyl-3-hydroxyadamantane
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS FORMAT
RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 27 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS FORMAT
RECORD. ALL CITATIONS AVAILABLE IN THE RE

L4 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 16 Dec 1998
AB High yields of polymerizable adamantane derivs. each having at least one polymerizable unsatd. group are produced by the esterification or amidation of a 1-, 3-, 5- or/and 7-substituted; preferably >2 of substituents are HO, COOH or amino groups) adamantane compound with a polymerizable unsatd. group-containing compound (e.g. an alc., a carboxylic acid
or an amine) in the presence of a catalyst comprising a Group-III element compound, e.g., Bu compound Thus, heating adamantane 10 with N-hydroxyphthalimide 1, Vi(acac)3 0.03 and Mn(acac)2 0.02 mmol in 25 mL AcOH at 75° for 6 h gave a mixed product containing 1-adamantanol 37, 1,3-adamantanediol (I) 35, 1,3,5-adamantanetriol 5 and 1,3,5,7-adamantanetetraol 4%. Mixing I 0.168 with Bu2 0.040 and vinyl acrylate 0.216 g in dioxane at 60° for 6 gave an adamantyl diacrylate at 97% yield.
ACCESSION NUMBER: 1998:789216 CAPLUS
DOCUMENT NUMBER: 130:38780
TITLE: Photochemically or thermally polymerizable adamantane derivatives and process for producing the same
INVENTOR(S): Ishii, Yasutaka; Nakano, Tatsuya; Hirai, Naruhisa
PATENT ASSIGNEE(S): Daicel Chemical Industries, Ltd., Japan
SOURCE: PCT Int. Appl., 82 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9852902	A1	19981126	WO 1998-JP2085	19980512
W: KR, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 11031522	A	19990209	JP 1998-106714	19980416
EP 915077	A1	19990512	EP 1998-919559	19980512
EP 915077	B1	20041117		
R: DE, FR, GB				
TW 439040	B	20010601	TW 1998-87107704	19980519
US 6225501	B1	20010522	US 1999-214724	19990111
KR 2000029498	A	20000525	KR 1999-700524	19990122
PRIORITY APPLN. INFO.:			JP 1997-137457	A 19970527
			WO 1998-JP2085	W 19980512

OTHER SOURCE(S): MARPAT 130:38780
IT 39917-38-9P, 1-Acetyl-3-hydroxyadamantane 216582-03-5P, 1-Acetyl-3,5-adamantanediol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; manufacture and reaction in manufacture of photochemically or thermally
polymerizable adamantane derivs.)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 216582-03-5 CAPLUS
CN Ethanone, 1-(5,5-dihydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

IT 216582-05-7P, 1-Acetyl-7-acryloyloxyadamantane
216582-06-8P, 1-Acetyl-3-hydroxy-5-acryloyloxyadamantane
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(monomers; manufacture of photochem. or thermally polymerizable adamantane
derivs.)
RN 216582-05-7 CAPLUS
CN 2-Propenoic acid, 3-acetyltricyclo[3.3.1.13,7]dec-1-yl ester (CA INDEX NAME)

RN 216582-06-8 CAPLUS
CN 2-Propenoic acid, 3-acetyl-5-hydroxytricyclo[3.3.1.13,7]dec-1-yl ester (CA INDEX NAME)

L4 ANSWER 30 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 01 Aug 1997
AB The crystal structures of the adamantane derivs., 1-acetyl-3-adamantanol, $C_{12}H_{18}O_2$, (4), and 3-hydroxyadamantane-1-carboxylic acid, $C_{11}H_{16}O_3$, (5), were determined by x-ray diffraction. Both structures show extensive intermol. H bonding involving the hydroxyl and acetyl groups in compound (4), and the hydroxyl and carboxyl groups in compound (5). Crystallog. data and atomic coordinates are given.
ACCESSION NUMBER: 1997:490226 CAPLUS
DOCUMENT NUMBER: 127:102048
TITLE: 1-Acetyl-3-hydroxyadamantane and 1-Carboxy-3-hydroxyadamantane
AUTHOR(S): Lath, Nigan P.; Gu, Hong; Murray, Robert W.
CORPORATE SOURCE: Dep. Chemistry, Univ. Missouri-St. Louis, St. Louis, MO, 63121, USA
SOURCE: Acta Crystallographica, Section C: Crystal Structure Communications (1997), C53(7), 944-946
CODEN: ACSCEE; ISSN: 0108-2701
PUBLISHER: Munksgaard
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 39917-38-9, 1-Acetyl-3-hydroxyadamantane
RL: PRP (Properties)
(crystal structure of)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 29 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 31 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 19 Aug 1995
AB The relative rates of reaction of a series of p-substituted cumenes with dimethyldioxirane have been studied. The products are the corresponding cumyl alcs. Treatment of the rate data with the Hammett substituent consts. reveals that the insertion reaction is an electrophilic process with ρ = -2.76. Similar treatment of the data with the Brown-Okamoto substituent consts. gives ρ^+ = -1.61. The second-order rate consts. for the reaction of a series of substituted adamantanes with dimethyldioxirane were also determined. Again, the products are the corresponding adamantanols. The rate consts. were correlated with several types of substituent consts. The best correlations were obtained with the Taft σ^* and σI consts. which gave ρ^* = -1.08 and ρI = -2.39, resp. Thus, the insertion reaction in this aliphatic system is also electrophilic.
ACCESSION NUMBER: 1995:746912 CAPLUS
DOCUMENT NUMBER: 123:313186
TITLE: Linear Free Energy Relationship Studies of the Dimethyldioxirane C-H Bond Insertion Reaction
AUTHOR(S): Murray, Robert W.; Gu, Hong
CORPORATE SOURCE: Department of Chemistry, University of Missouri, St. Louis, MO, 63121, USA
SOURCE: Journal of Organic Chemistry (1995), 60(17), 5673-7
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 39917-38-9P, 1-Acetyl-3-hydroxyadamantane
RL: SPN (Synthetic preparation); PREP (Preparation)
(insertion reaction of adamantanes with dimethyldioxirane)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 31 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 07 Aug 1993
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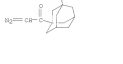
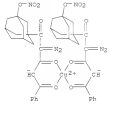
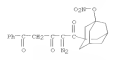
AB 2-Diazo-1-adamantyl-5-aryl-1,5-pentanetriones I (R = H, Me, MeO, Br, Cl, X = H, Cl, Br, NO2, CNO2) and also the products of their thermal cyclization, 3-(1-adamantyloxy)-5-aryl-2,5-dihydrofuran-2-ones and 2-(1-adamantyloxy)-3-aryl-2,3-dihydrofuran-3-ones were prepared by reaction of 1-adamantyloxyacetyldiazomethane with 5-aryl-2,3-dihydrofuran-2,3-diones. The formation of furanones results from thermolysis of the diazopentanetriones during their preparation
ACCESSION NUMBER: 1993:649029 CAPLUS
DOCUMENT NUMBER: 119:49029
TITLE: Chemistry of oxalyl derivatives of methyl ketones. Synthesis and thermolysis of 2-diazo-1-adamantyl-5-aryl-1,3,5-pentanetriones
AUTHOR(S): Andrievskikhov, Yu. S.; Kolebovs, M. P.
CORPORATE SOURCE: Perm. Gos. Farm. Inst., Perm, Russia
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1992), 28(8), 1692-9
CODEN: KOSEAX; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 119:49009
IT 73599-86-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(condensation of, with arylfuranones)
RN 73599-86-7 CAPLUS
CN Ethanone, 2-diazo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)



L4 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

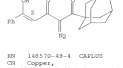


L4 ANSWER 32 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
IT 78227-77-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and chelation by copper halides)
RN 78227-77-7 CAPLUS
CN 1,3,5-Pentanetrione, 2-diazo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]-5-phenyl- (CA INDEX NAME)



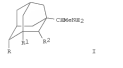
IT 148146-34-3P 148570-49-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 148146-34-3 CAPLUS
CN 4-Pentene-1,3-dione, 2-diazo-5-hydroxy-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]-5-phenyl-, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 148570-49-4 CAPLUS
CN Copper, bis[2-diazo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]-5-phenyl-1,3,5-pentanetrionato-O3,O5]- (9CI) (CA INDEX NAME)

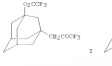
L4 ANSWER 33 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 03 Aug 1990
GI



AB The hydroxy metabolites of rimantadine I (R = OH, R1 = R2 = H; R = H, R1 = R2 = OH; R = R2 = H, R1 = OH) were synthesized and compared to amantadine and rimantadine for their ability to inhibit the replication of influenza viruses in vitro. All 3 metabolites were inhibitory to wild-type influenza A viruses (H3N2 and H1N1). In particular, 2-hydroxyrimantadine I (R = R1 = H, R2 = OH) showed similar activity to amantadine, but the 3- and 4-hydroxy metabolites, both of which are found in rimantadine-treated patients, showed only modest inhibitory activity. A rimantadine-resistant isolate of influenza A virus exhibited cross-resistance to amantadine and to each of the metabolites I. None of the compds. was effective against influenza B virus.
ACCESSION NUMBER: 1990:440007 CAPLUS
DOCUMENT NUMBER: 113:40007
TITLE: Synthesis and antiviral activity of metabolites of rimantadine
AUTHOR(S): Marshand, Percy S.; Cerruti, Richard L.; Martin, Joseph A.; Hill, Christopher M.; Merrett, John H.; Keech, Elizabeth; Belshe, Robert B.; Connell, Edward V.; Sim, Iain S.
CORPORATE SOURCE: Dep. Chem. Res., Hoffmann-La Roche Inc., Nutley, NJ, 07110, USA
SOURCE: Journal of Medicinal Chemistry (1990), 33(7), 1992-5
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 113:40007
IT 3991-38-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxination of)
RN 3991-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 33 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

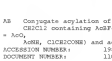
L4 ANSWER 34 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 06 Jul 1990
GI



AB The title reaction in dry CHCl3 containing pyridine at 20° gave 15% adamantane 1 and 45% bicyclononanone II.
ACCESSION NUMBER: 1990:405758 CAPLUS
DOCUMENT NUMBER: 113:5758
TITLE: Reaction of 3,7-dimethylenebicyclo[3.3.1]nonane with trifluoroacetic anhydride
AUTHOR(S): Khorkevich, A. P.; Kolobenok, V. A.; Kakhar, V. F.
CORPORATE SOURCE: Inst. Bioorg. Khim., Kiev, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1989), 25(10), 2240-1
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 113:5758
IT 127510-27-4P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in reaction of dimethylenebicyclononane with trifluoroacetic anhydride)
RN 127510-27-4 CAPLUS
CN Acetic acid, trifluoro-, 3-(3,3,3-trifluoro-2-oxopropyl)tricyclo[3.3.1.13,7]dec-1-yl ester (9CI) (CA INDEX NAME)

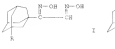
L4 ANSWER 35 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 20 Aug 1989
AB 1ACH3SO2Ph (I) was prepared from Ba1dCO3 in four steps in 70% overall yield.
The dianion of I was treated with a variety of esters RCO2Me to produce keto sulfones RCO1ACH2SO2Ph, which were subsequently reduced with Al/Hg or
Na/Hg to provide labeled Me ketones RCO1ACH3. These ketones may be transformed into more complex structures in which the labeled carbon is secured within the carbon skeleton. The dianion of I was also condensed with di-tBt carbonate to yield labeled tBt phenylsulfonylacetate. After saponification and reduction of the carboxylate salt with Na/HgNH3, sodium
[2-14C]acetate was obtained, thus providing a convenient synthesis of [2-14C]acetic acid.
ACCESSION NUMBER: 1989:450599 CAPLUS
DOCUMENT NUMBER: 111:50599
TITLE: [14C]methyl phenyl sulfone: a novel reagent for general and facile carbon-14 labeling
AUTHOR(S): Chesnutt, Satish C.; Serlow, Linda; Capano, Joseph
CORPORATE SOURCE: Chem. Res. Dep., Hoffmann-La Roche, Inc., Nutley, NJ, 07110, USA
SOURCE: Journal of Organic Chemistry (1989), 54(15), 3755-7
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 111:50599
IT 121706-33-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation-hydrogenation of)
RN 121706-33-0 CAPLUS
CN Ethanone-2-14C, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (9CI) (CA INDEX NAME)

L4 ANSWER 36 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 04 Mar 1989
GI



AB Conjugate acylation of the title compound I by AcCl, MeCN, and ClCH2CH in CHCl3 containing AcBF4 gave ketones containing acetonyladamantanes II (X = AcO, AcNH, ClCH2CONH) and acyladamantanes III.
ACCESSION NUMBER: 1989:74894 CAPLUS
DOCUMENT NUMBER: 110:74894
TITLE: Conjugate acylation of 3,7-dimethylenebicyclo[3.3.1]nonane
AUTHOR(S): Gubernatorov, V. K.; Sokolenko, V. A.; Grichev, I. P.;
CORPORATE SOURCE: Salekhova, K. S.
SOURCE: Inst. Khim. Khim. Tekhnol., Krasnoyarsk, USSR
Zhurnal Organicheskoi Khimii (1988), 24(4), 892-4
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 110:74894
IT 118647-95-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 118647-95-3 CAPLUS
CN 2-Propanone, 1-[3-(acetyloxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)

L4 ANSWER 37 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 31 Oct 1987
GI



AB Title compds. I [R = H, Me, Et, Cl, 4-MeC6H4] were prepared by treatment of
bromomethyl ketones II with NH2OH in EtOH. II (R = CHO2) underwent hydrolysis to give I (R = OH). All six oximes were dibenzoylated with BzCl-C5H5N in CHCl3.
ACCESSION NUMBER: 1987:153970 CAPLUS
DOCUMENT NUMBER: 107:153970
ORIGINAL REFERENCE NO.: 107:24765a,24766a
TITLE: Synthesis and properties of dioximes of the adamantane series
AUTHOR(S): Moiseev, I. K.; Kalinina, M. I.; Zemtsova, M. N.; Trakhtenberg, P. L.
CORPORATE SOURCE: Kuibyshev. Politekh. Inst., Kuibyshev, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1986), 22(11), 2292-6
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 107:153970
IT 73599-86-7P
RL: SYN (Synthetic preparation); PREP (Preparation)
(preparation and conversion into bromide)
RN 73599-86-7 CAPLUS
CN Ethanone, 2-diazo-1-[3-[nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)

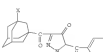
IT 69752-09-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oximation of)
RN 69752-09-0 CAPLUS

L4 ANSWER 38 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 29 Sep 1994
GI

AB Reducing 3-chloro-1-cyanoadamantane (I; R = cyano, X = Cl) with LiAlH4 in Et2O gave 70% I (R = CH2NH2-HCl, X = Cl) (II), which was hydrolyzed with 20% aqueous HCl to give 78% I (R = CH2NH2, X = OH) (III) after neutralization. Treating I (R = CO2H, X Br) with SOCl2 and then Et2NSiMe3 (CO2Et)2 then refluxing CS2H2 gave, after acidic hydrolysis, 31% I (R = COMe, X = OH), which gave 86% I (R = CH2NHOH, X = OH) with HONH2 and
then 70% I (R = CH2NHNH2, X = OH) (IV) on reduction with Raney Ni. Treating
III, IV and I (R = NH2, X = OH) with 63% aqueous HBr gave 50-92% I (R = NH2-HBr, X = Br; R = CH2, CHMe, bond, resp.), and IV reacted with concentrated HCl to give 60% I (R = CH2NHNH2-HCl, X = Cl). II had the greatest virucidal activity of the compds. prepared
ACCESSION NUMBER: 1994:510401 CAPLUS
DOCUMENT NUMBER: 101:151401
ORIGINAL REFERENCE NO.: 101:25845a,25846a
TITLE: Synthesis and antiviral activity of some 3-halo derivatives of 1-aminoadamantane
AUTHOR(S): Kozhushko, G. I.; Mishkosh, O. I; Votyakov, V. I.; Rozyaev, V. A.; Danilenko, V. F.; Stepanova, G. Y.; Danilenko, O. I.
CORPORATE SOURCE: Inst. Org. Chem., Kiev, USSR
SOURCE: Farmatsevticheskii Zhurnal (Kiev) (1984), (1), 37-40
CODEN: FAZHAP; ISSN: 0367-3057
DOCUMENT TYPE: Journal
LANGUAGE: Ukrainian
OTHER SOURCE(S): CASREACT 101:110401
IT 3991-38-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(oximation of)
RN 3991-38-9 CAPLUS
CN Ethanone, 1-[3-hydroxytricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)

L4 ANSWER 37 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
CN Ethanone, 2-bromo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX
NAME)

L4 ANSWER 39 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1984
GI

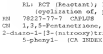


AB Title compds. I (X = H, R = Cl; X = CHO2, R = H) were prepared by cyclizing
the corresponding 2-diazo-1-adamantyl-5-aryl-1,3,5-pentanetriones in the presence of 1 equivalent HClO2 in 1:1 CHCl3-ale. solvent at 20-3° for 20-30 h.
ACCESSION NUMBER: 1983:505243 CAPLUS
DOCUMENT NUMBER: 99:105243
ORIGINAL REFERENCE NO.: 99:16205a,16206a
TITLE: 3-(1-Adamantoyl)-5-aroylpyrazolin-4-ones
INVENTOR(S): Andreichikov, Yu. S.; Sivkova, M. P.
PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR
SOURCE: U.S.S.R. From: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1983, (10), 104-5.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 1004373	A1	19830315	SU 1981-3374499	19811228

PRIORITY APPLN. INFO.: SU 1981-3374499 19811228

OTHER SOURCE(S): CASREACT 99:105243
IT 78227-77-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of, pyrazolinone by)
RN 78227-77-7 CAPLUS
CN 1,3,5-Pentanetrione, 2-diazo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]-5-phenyl- (CA INDEX NAME)



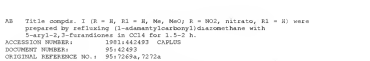
L4 ANSWER 39 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 40 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1984
GI

AB Adamantane deriva. I [R = H, Cl, Br, CHO2, CSCOOR1 (R1 = adamantyldioxamethyl derivative), R1 = H, Br, NO2, Ph, CHO2] were prepared in
29-78% yields by treatment of the corresponding adamantyl Me ketone with 5-phenyl-2,3-dihydro-2,3-furandione under thermal decarboxylation conditions. Addnl. obtained was pyranilone II via dimerization of the benzoylketene.
ACCESSION NUMBER: 1983:72015 CAPLUS
DOCUMENT NUMBER: 98:72015
ORIGINAL REFERENCE NO.: 98:11607a,11608a
TITLE: Chemistry of oxalyl derivatives of methyl ketones. 29. Reaction of carbonyl compounds of adamantane with 5-phenyl-2,3-dihydrofuran-2,3-dione
AUTHOR(S): Andreichikov, Yu. S.; Sivkova, M. F.; Shapet'ko, N. N.
CORPORATE SOURCE: Perm. Gos. Farm. Inst., Perm, 614600, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1982), (12), 1312-15
CODEN: KGSSAQ; ISSN: 0453-8234
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 98:72015
IT 69752-09-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(cycloaddn. reaction of, with dihydrophenylfurandione)
RN 69752-09-6 CAPLUS
CN Ethanone, 2-bromo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)

L4 ANSWER 40 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

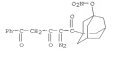
L4 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1984
GI



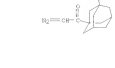
AB Title compds. I (R = H, Cl = H, Me, MeO; R = NO2, nitrato, R1 = H) were prepared by refluxing (1-adamantylcarbonyl)diazomethane with 5-aryl-2,3-furandiones in CCl4 for 1.5-2 h.
ACCESSION NUMBER: 1981:442493 CAPLUS
DOCUMENT NUMBER: 95:42493
ORIGINAL REFERENCE NO.: 95:7269a,7272a
TITLE: 2-Diazo-1-adamantyl-5-aryl-1,3,5-pentanetriones
INVENTOR(S): Andreichikov, Yu. S.; Sivkova, M. F.
PATENT ASSIGNEE(S): Perm Pharmaceutical Institute, USSR
SOURCE: U.S.S.R. from: Otkrytiya, Izobret., Prom. Obraztsy, Tovarnye Znaki 1981, (9), 89.
CODEN: URXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
SU 810678	A1	19810307	SU 1979-2758178	19790404
PRIORITY APPLN. INFO.:			SU 1979-2758178	A 19790404

OTHER SOURCE(S): CASREACT 95:42493
IT 78227-79-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 78227-79-9 CAPLUS
CN 1,3,5-Pentanetrione, 2-diazo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]-5-phenyl- (CA INDEX NAME)

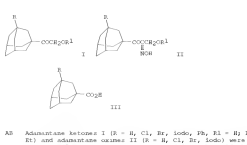


L4 ANSWER 42 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1994
AB The polarog. half-wave potentials and limiting currents of 9 RCOCHN2 (R = adamantyl, 3-substituted adamantyl) were determined as a function of pH. In 50% aqueous alc. 2 cathodic waves were obtained; the 1st had diffusion and the 2nd kinetic character. The reduction produced an oxo imine in the 1st step and a Me ketone in the 2nd. The substituents in position 3 had little effect on the ease of electroredn. of the diazo group.
ACCESSION NUMBER: 1980:56279 CAPLUS
DOCUMENT NUMBER: 93:56279
ORIGINAL REFERENCE NO.: 93:9627a,9630a
TITLE: Polarographic reduction of adamantoyldiazomethane derivatives
AUTHOR(S): Gotsa, L. D.; Sivkova, M. P.; Velkhman, G. A.; Lezorkina, G. I.; Andreichikov, Yu. S.
CORPORATE SOURCE: USSR
SOURCE: Zhurnal Obshchei Khimii (1980), 50(5), 1139-43
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 73599-86-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(polarog. reduction of)
RN 73599-86-7 CAPLUS
CN Ethanone, 2-diazo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)



L4 ANSWER 43 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 43 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1994
GI



AB Adamantane ketones I [R = H, Cl, Br, Iodo, Ph, R1 = H; R = Cl, Br, R1 = Et] and adamantane oximes II [R = H, Cl, Br, Iodo] were prepared from the corresponding III. III were converted into the acid chloride, which were treated with CH2N2 or MeCHN2 to give the diazo derivs., which underwent decomposed in acidic H2O or EtOH to give I; some I were converted into oximes II. I and II were tested as antimicrobials and antispasmodics.
ACCESSION NUMBER: 1980:197989 CAPLUS
DOCUMENT NUMBER: 92:197989
ORIGINAL REFERENCE NO.: 92:32063a,32066a
TITLE: Synthesis and biological activity of adamantane derivatives
AUTHOR(S): Fridman, A. L.; Sivkova, M. P.; Salesov, V. S.; Dolbiktin, F. V.; Moiseev, I. K.; Doroshenko, R. I.; Manzheleevkaya, E. V.
CORPORATE SOURCE: Perm. Farm. Inst., Perm, USSR
SOURCE: Khimiko-Farmatsevticheskii Zhurnal (1979), 13(12), 24-31
CODEN: KEFZAN; ISSN: 0023-1134
DOCUMENT TYPE: Journal
LANGUAGE: Russian
OTHER SOURCE(S): CASREACT 92:197989
IT 73599-86-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and solvolytic decomposition of)
RN 73599-86-7 CAPLUS
CN Ethanone, 2-diazo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)

L4 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1994
GI

AB 35Cl and 79Br NQR data were obtained for I [R = H, Cl, Br, Iodo, F, Ph, NO2, CHO2, p-tolyl, 3,4-xylyl, (O2N)3C; R1 = Cl, CHCl2, CHBr2] and NMR data were also obtained for the exocyclic CHX group of I (same R; R1 = CHCl2, CHBr2). Correlation of the NQR frequencies with σ* consts. yielded straight lines with pos. slopes for electron-accepting R substituents and neg. lines with neg. slopes for R = H, Ph, p-tolyl and 3,4-xylyl. The concentration and temperature effects on the NMR and NQR data indicate intermol. association, especially for I containing electron-accepting R substituents.
ACCESSION NUMBER: 1979:151397 CAPLUS
DOCUMENT NUMBER: 90:151397
ORIGINAL REFERENCE NO.: 90:24053a,24056a
TITLE: Study of adamantane-carboxylic chlorides and α-haloalkyl adamantyl ketones
AUTHOR(S): Petukhov, S. A.; Vakhrin, M. I.; Sivkova, M. P.
CORPORATE SOURCE: Perm. Gos. Univ., Perm, USSR
SOURCE: Zhurnal Fizicheskoi Khimii (1979), 53(1), 122-5
CODEN: ZFKHA9; ISSN: 0044-4537
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 69752-02-9 69752-09-6
RL: PYP (Properties)
(NQR of)
RN 69752-02-9 CAPLUS
CN Ethanone, 2-chloro-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)

RN 69752-09-6 CAPLUS
CN Ethanone, 2-bromo-1-[3-(nitrooxy)tricyclo[3.3.1.13,7]dec-1-yl]- (CA INDEX NAME)

L4 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

L4 ANSWER 45 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1984
AB The mechanism of photoacetylation of adamantanes with bisacetyl was discussed. The reaction proceeded via triplet bisacetyl and had a large ρ^+ value (-0.71). Thermolysis of tert-Bu 1-adamantanepercyoxyoxylate in bisacetyl gave 1-acetyladamantane while tert-Bu 2-adamantanepercyoxyacetate gave both 1- and 2-acetyladamantanes. The exclusive bridgehead substitution in the present photoacetylation was not determined by the radical transfer step, but mostly by the regiospecific abstraction of the bridge hydrogen by triplet bisacetyl, probably owing to the large nonbonded repulsion in a transition state of secondary H abstraction.
ACCESSION NUMBER: 1978:423399 CAPLUS
DOCUMENT NUMBER: 89:23399
ORIGINAL REFERENCE NO.: 89:3674a,3640a
TITLE: Mechanism of photoacetylation of substituted adamantanes
AUTHOR(S): Tabushi, Iwao; Kojo, Shosuke; Fukunishi, Koushi
CORPORATE SOURCE: Dep. Synth. Chem., Kyoto Univ., Kyoto, Japan
SOURCE: Journal of Organic Chemistry (1978), 43(12), 2370-4
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 42825-02-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 42825-02-5 CAPLUS
CN Ethanone, 1-(3-methoxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Irradiation of adamantane and its deriva. (I; R1 = R2 = H, R = H, Me, MeO, MeCO2, Br, and R = R1 = Me, R2 = H) and Me(CO)2Me gave the acetyl derivs. (I, R1 = Ac) by exclusive bridgehead substitution. The reaction constant obtained from the relative reactivities of the 1-substituted adamantanes was more neg. than for the corresponding reactions with Br•, Cl3C•, and benzophenone.
ACCESSION NUMBER: 1973:515201 CAPLUS
DOCUMENT NUMBER: 79:115201
ORIGINAL REFERENCE NO.: 79:18707a,18710a
TITLE: Photoacetylation of substituted adamantanes. Exclusive bridgehead substitution and a large ρ^+ value
AUTHOR(S): Tabushi, Iwao; Kojo, Shosuke; Yoshida, Zenichi
CORPORATE SOURCE: Dep. Pharm. Sci., Kyushu Univ., Fukuoka, Japan
SOURCE: Tetrahedron Letters (1973), (26), 2329-32
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 42825-02-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 42825-02-5 CAPLUS
CN Ethanone, 1-(3-methoxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1984
GI For diagram(s), see printed CA Issue.
AB Stepwise treatment of 3-bromo-1-adamantanecarboxylic acid (I; R = CO2H, X = Br) with SOCl2, (EtO2C)2CHMgOEt, and H2O afforded 62% I (R = COMe, X = CH), which was converted to 92% I (R = CHBrMe, X = Br) (II) by LiAlH4 reduction, followed by refluxing with 63% aqueous HBr; II gave the title compound (III) in 76% yield with Zn dust in refluxing DMF. III formed complexes with AgNO3 and CuCl, and reacted with aqueous H2SO4, HBr in CCl4, MeCH=N2SO4, Na in MeOH, and I2 to give adamantanes IV (R = Me, X = OH, Br, NHAc, H; R = CH2I, X = I, resp.); bromination of III in CCl4 gave 78% 2 1,2-dimethyl- and 1-ethyladamantane in 49% total yield after hydrogenation over Raney Ni of the resultant tribromide in the presence of NaOH.
ACCESSION NUMBER: 1973:83902 CAPLUS
DOCUMENT NUMBER: 78:83902
ORIGINAL REFERENCE NO.: 78:13385a,13388a
TITLE: Synthesis and chemical reactions of 3-methylene-7-ethylidenebicyclo[3.3.1]nonane
AUTHOR(S): Yurchenko, A. G.; Nurzunova, Z. N.; Stepanov, F. N.
CORPORATE SOURCE: Kiev. Politekh. Inst., Kiev, USSR
SOURCE: Zhurnal Organicheskoi Khimii (1972), 8(11), 2332-8
CODEN: ZORKAE; ISSN: 0514-7492
DOCUMENT TYPE: Journal
LANGUAGE: Russian
IT 39917-38-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 39917-38-9 CAPLUS
CN Ethanone, 1-(3-hydroxytricyclo[3.3.1.13,7]dec-1-yl)- (CA INDEX NAME)

L4 ANSWER 48 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 12 May 1994
AB 1-[2-(Methylamino)-propyl]-3,5,7-trimethyladamantane-HCl (I) and similar compds. were prepared by different methods and their pharmacol. activity tested. Thus, 1-bromo-3,5,7-trimethyladamantane was refluxed in aqueous NaHCO3-ascorbic acid to give 3,5,7-trimethyl-1-adamantanol (II). To II was added KF3 in H2SO4, followed by CHCl3, to give 3,5,7-trimethyl-1-adamantaneacetic acid (III). III heated with SOCl2 gave the corresponding acid chloride, which was added to di-Et malonate-Mg salt in Et2O to give on saponification 1-(3,5,7-trimethyl-1-adamantyl)-2-propanone (IV). IV was dissolved in MeNH2-EtOH and the product hydrogenated over PtO2 to give, after acidification, I. Fifty-three examples are given.
ACCESSION NUMBER: 1971:141110 CAPLUS
DOCUMENT NUMBER: 74:141110
ORIGINAL REFERENCE NO.: 74:23799a,23802a
TITLE: Adamantanealkylamines antidepressants
INVENTOR(S): Cashin, Colin H.; Chakrabarti, Jiban K.; Szinai, Stephen S.
PATENT ASSIGNEE(S): Lilly Industries Ltd.
SOURCE: Ger. Offen., 84 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1943404	A	19701217	DE 1969-1943404	19690826
GB 1274652	A	19720517	GB 1968-40968	19680827
IL 32292	A	19700425	IL 1969-32892	19690824
BE 737975	A	19700226	BE 1969-737975	19690826
NL 6912646	A	19700303	NL 1969-12646	19690826
AT 307388	B	19730525	AT 1969-8172	19690826
CH 537442	A	19730915	CH 1969-13006	19690826
SE 364037	B	19740211	SE 1969-11809	19690826
CH 551365	A	19740715	CH 1971-14359	19690826
CH 553149	A	19740830	CH 1972-1433	19690826
DK 131721	B	19750925	DK 1969-4578	19690826
FR 2016648	A5	19700508	FR 1969-29356	19690827
FR 2016648	B2	19730608		
JP 49029256	B	19741024	JP 1972-64562	19720629
JP 49029257	B	19741024	JP 1972-64563	19720629
JP 50010856	B	19750424	JP 1972-64561	19720629
US 3929888	A	19751230	US 1973-417174	19731119
US 4027035	A	19770531	US 1975-608613	19750828
PRIORITY APPLN. INFO.:			GB 1968-40968	A 19680827
			US 1969-852090	A2 19690821
			US 1973-417174	A3 19731119

IT 31898-12-1P

L4 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN
ED Entered STN: 22 Apr 2001
AB A mixture of 37.5 g. 2-methoxybutadiene, 36.5 g. 3-methyl-3-buten-2-one, and 0.6 g. hydroquinone is heated at 150-80° for 16 hrs. to give 40 g. 1-methoxy-4-acetyl-4-methyl-1-cyclohexene (I). I is stirred with 10 cc. 2% H2SO4 for 10 min., saturated with NH4Cl, the upper layer removed, and the lower layer extracted with Et2O to give 32 g. 6-acetyl-4-methyl-1-cyclohexanone (II). II (5 g.) is refluxed in 100 cc. aqueous solution of 5 g. KOH for 6 hrs., cooled, neutralized with HCl, and extracted with Et2O to give 3 g. 1-methyl-4-hydroxybicyclo[2.2.2]octan-2-one, m2.5 100-1°. Similarly prepared are 1-methoxy-4-hydroxybicyclo[2.2.2]octan-2-one (m. 60°) and 1-ethyl-4-hydroxybicyclo[2.2.2]octan-2-one. The products are intermediates for the manufacture of thermo-resistant polyamides.
ACCESSION NUMBER: 1961:47418 CAPLUS
DOCUMENT NUMBER: 64:47418
ORIGINAL REFERENCE NO.: 64:12586g-f
TITLE: 1-Alkyl-4-hydroxybicyclo [2.2.2] octan-2-ones
INVENTOR(S): Morita, Yenichi; Hishimura, Michio
PATENT ASSIGNEE(S): Toyo Kayon Co., Ltd.
SOURCE: 2 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 41000427	B4	19660128	JP	19631227
PRIORITY APPLN. INFO.:			JP	19631227

IT 6849-15-6P, 1-Adamantaneglyoxylaldehyde, 3-hydroxy-5-methyl-
6859-85-4P, 1-Adamantaneglyoxylaldehyde, 3-hydroxy-
6859-86-5P, 1-Adamantaneglyoxylaldehyde, 3-methoxy-
7016-29-7P, 1-Adamantaneglyoxylaldehyde, 3-methoxy-5-methyl-
RL: PREP (Preparation)
(manufacture of)
RN 6849-15-6 CAPLUS
CN 1-Adamantaneglyoxylaldehyde, 3-hydroxy-5-methyl- (7CI, 8CI) (CA INDEX NAME)

RN 6859-85-4 CAPLUS
CN 1-Adamantaneglyoxylaldehyde, 3-hydroxy- (8CI) (CA INDEX NAME)

L4 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 31898-12-1 CAPLUS
CN 2-Propanone, 1-(3-hydroxy-1-adamantyl)- (8CI) (CA INDEX NAME)

L4 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2008 ACS on STN (Continued)

RN 6859-86-5 CAPLUS
CN 1-Adamantaneglyoxylaldehyde, 3-methoxy- (7CI, 8CI) (CA INDEX NAME)

RN 7016-29-7 CAPLUS
CN 1-Adamantaneglyoxylaldehyde, 3-methoxy-5-methyl- (7CI, 8CI) (CA INDEX NAME)